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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,704	07/21/2003	Wen-Sheng Huang	BHT-3101-191	4382

7590 06/29/2004
BRUCE H. TROXELL
SUITE 1404
5205 LEESBURG PIKE
FALLS CHURCH, VA 22041

EXAMINER

SAKRAN, VICTOR N

ART UNIT PAPER NUMBER

3677

DATE MAILED: 06/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/622,704	Applicant(s) HUANG, WEN-SHENG	
	Examiner VICTOR N SAKRAN	Art Unit 3677	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: since Figure 7, has been described in duplicate on page 3, of the specification, second occurrence of the description of Figure 7, it should be deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-4 and 6-12, are rejected under 35 U.S.C. 103(a) as being unpatentable over Donaldson U. S. Patent No. 3,475,264 in view of Davignon et al U. S. Patent No. 5,836,053 and Stehouwer U. S. Patent No. 4,407,082.

Donaldson discloses the general combination claimed of a strap structure comprising a strap body formed of plastic material, a plurality of reinforcing string-like elements (16), imbedded in the strap body, and a connector member (46) for securing the strap about an article; see Figures 1-5, 11; the abstract; column 4, lines 61-71; column 7, lines 32-35, and claims 1-3, except that the strap is provided with teeth on the outer surface thereof and the reinforcing member is formed of metal. Davignon et al teaches the use of a strap body having teeth formed on one side thereof and on the outer surface of its strap body; see Figure 1. Stehouwer teaches the use of reinforcing metal member (16,17) embedded within the tie (14); see Figure 3; column 2, lines 5-8. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the outer face of the strap body in Donaldson with a plurality of teeth and to form its reinforcing elements of metal string in the manner taught, disclosed and suggested by Davignon et al and Stehouwer, respectively, and/or vice versa by merely providing the strap body in Davignon et al with a plurality of reinforcing string which are formed of metal in the manner taught, disclosed and suggested by Stehouwer and Donaldson, especially, since such modification involves only routine skill in the art. Applicant is reminded that in considering the disclosure of a reference, it is proper to take into account not only specific teaching of the

reference but also the inferences which one skilled in the art would reasonably be expected to draw therefrom; see *In re Preda*, 401 F.2d 825, 826, 159 USPQ 342,344 (CCPA1968). Moreover, the particular shape of the strap body is considered to be no more than a matter of design choice obvious to one having ordinary skill within the art at the time the invention was made, especially, since it has been held that the particular change in shape of an element in a prior art device is such a change considered no more than an obvious matter of design choice to one having ordinary skill within in the art. See *In Re Dailey*, 357 F. 2d 669, 149 USPQ 47 (CCPA 1954).

Claim 5, is rejected under 35 U.S.C. 103(a) as being unpatentable over the same references as applied to claims 1-4, above, and further in view of Patzl U. S. Patent No. 6,607,340.who teaches the use of a spiral thread (36); see Figure 3, and to further modify the shape of the teeth in Davignon et al in the form of spiral teeth in the manner taught and disclosed by Petzl et al it would have been obvious to one having ordinary skill in the art at the time the invention was made, especially, since the use of a spiral teeth is conventional and well known in the art.


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant's attention is directed to the art cited herein, as showing structure related to Applicant's disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VICTOR N SAKRAN whose telephone number is 703-308-2224. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. swann can be reached on 703-308-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 16, 2004


VICTOR N SAKRAN
Primary Examiner
Art Unit 3677